PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

То	;						PCT		
see form PCT/ISA/220					WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)				
						-	rm PCT/ISA/210 (s	econd sheet)
	licant's or agent's file form PCT/ISA/2				FOR FURT		TION		····
1	rnational application T/IL2006/001295		International 12.11.200		l ay/month/year)		riority date <i>(daylmi</i> 0.11.2005	onth/year)	
	rnational Patent Clas /. C12N5/06	ssification (IPC) or	Lboth national c	lassification a	and IPC				
1 ' '	licant RTICURE LTD.			•					
1.	This opinion co	ontains indication	ons relating	to the follo	wing items:				
	☑ Box No. I	Basis of the op	inion			•			
	⊠ Box No. II	Priority							
	⊠ Box No. III			n with rega	rd to novelty, i	inventive s	tep and industria	ıl applicabil	ity
l	∐ Box No. IV	Lack of unity of							
	⊠ Box No. V	applicability; ci	tations and e	Rule 43 <i>bis.</i> xplanations	1(a)(i) with req supporting su	gard to nov och stateme	elty, inventive st ent	tep or indus	strial
	☐ Box No. VI	Certain docum				•			
	☐ Box No. VII	Certain defects		• •					
	☑ Box No. VIII		ations on the	Internation	al application				
2.	FURTHER ACT	ION							
	If a demand for i written opinion o the applicant cho International Bur will not be so co	of the Internationa poses an Authori reau under Rule	al Preliminary tv other than	Examining this one to	Authority ("IP he the IPFA a	EA") excer	ot that this does	not apply w	here
	If this opinion is, submit to the IPE from the date of whichever expire	=A a written reply mailing of Form	/ toaether. wi	nere approp	riate, with am	endments	hefore the evnir	ation of 3 n	nonths
	For further option	ns, see Form PC	T/ISA/220.						
3.	For further detail	s, see notes to F	orm PCT/IS/	√220.					
Name and mailing address of the ISA: Date of completion of this opinion Authorized Officer							Peloqia		

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Form (PCT/ISA/237) (Cover Sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2006/001295

	_			
	Box	x No). I	Basis of the opinion
1.	Wit	h re	gard	to the language, this opinion has been established on the basis of:
	×	the	inte	rnational application in the language in which it was filed
		a t pu	rans rpos	lation of the international application into , which is the language of a translation furnished for the es of international search (Rules 12.3(a) and 23.1 (b)).
2.	Wit nec	to any nucleotide and/or amino acid sequence disclosed in the international application and o the claimed invention, this opinion has been established on the basis of:		
	a. t	уре	of m	aterial:
	ĺ	Ø	a se	equence listing
	1		tabl	e(s) related to the sequence listing
	b. f	orm	at of	material:
		\boxtimes	on p	paper
		\boxtimes	in e	lectronic form
	c. t	ime	of fil	ing/furnishing:
		Ø	con	tained in the international application as filed.
		\boxtimes	filed	together with the international application in electronic form.
			furn	ished subsequently to this Authority for the purposes of search.
3.		ha co	s be pies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.
4.	Ad	ditio	nal c	comments:
_	Во	χN	o. II	Priority
1.	×	do re	es n auire	clidity of the priority claim has not been considered because the International Searching Authority not have in its possession a copy of the earlier application whose priority has been claimed or, where ed, a translation of that earlier application. This opinion has nevertheless been established on the ption that the relevant date (Rules 43 <i>bis</i> .1 and 64.1) is the claimed priority date.
2.		ha	is be	pinion has been established as if no priority had been claimed due to the fact that the priority claim ten found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2006/001295

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of						
	the entire international application					
	claims Nos. 14-60 (all partially)					
bed	cause:					
×	the said international application, or the said claims Nos. 14-60 (all with respect to industrial applicability) relate to the following subject matter which does not require an international search (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed <i>(specify)</i> :					
	no international search report has been established for the whole application or for said claims Nos.					
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:					
	☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.					
	☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.					
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 ter. 1(a) or (b).					
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.					
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See Supplemental Box for further details					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/L2006/001295

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-13,15-38,42-60

No: Claims

1,14,39,40,41,61

Inventive step (IS)

Yes: Claims

No: Claims

<u>1-61</u>

Industrial applicability (IA)

Yes: Claims

<u>1-13,61</u>

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

The present application describes the repair of cartilage tissue by allo- or xenotransplantation of neonatal mandibular condyle-derived chondrocytes.

The following documents (D) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: US2004175826 D2: US6645764

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 14-60 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1,14,39,40,41,61 is not new in the sense of Article 33(2) PCT.
 - The document D1 discloses (the references in parentheses applying to this document): repair of cartilage tissue with neonatal mandibular condyle-derived chondrocytes (the whole document, e.g. claims 80, 100) which positively stain for type II collagen (FIG. 3f).
- Dependent claims 2-13,15-38,42-60 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Art. 33(3) PCT) since their subject-matter was

either disclosed in the prior art (D1) or would be an obvious option for the person skilled in the art based on either D1 alone or in combination with D2 which discloses the use of perinatal chondrocytes for orthopedic therapy (the whole document).

- The subject-matter of claims 1-13,61 is susceptible of industrial application (Article 33(4) PCT).
- For the assessment of the present claims 14-60 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Re Item VIII

Certain observations on the international application

- It is not convincing that the present application can lead to the treatment of all 'orthopaedic disorders' (Art. 5 and 6 PCT), therefore claims 1,14,39,41,61 should have been restricted to the specific disorders mentioned in claims 33,35,37.
- 6 The use of the number "4" in claim 40 is not clear (Art. 6 PCT).
- The vague and imprecise statement made in the description by page 33, paragraph 3, implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity of the claims (Art. 6 PCT) when used to interpret them. This statement should therefore have been removed.